

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/090860 A1

(51) International Patent Classification⁷: **F21V 29/00**,
31/00, A01G 33/00, A01K 63/06

(21) International Application Number:
PCT/IE2005/000024

(22) International Filing Date: 15 March 2005 (15.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
S2004/0175 19 March 2004 (19.03.2004) IE

(71) Applicant and
(72) Inventor: MCFADDEN, John [IE/IE]; Ochtore, Kerry-
keel, Letterkenny, Co. Donegal (IE).

(74) Agents: LANE, Cathal, Michael et al.; Tomkins & Co., 5
Dartmouth Road, Dublin 6 (IE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

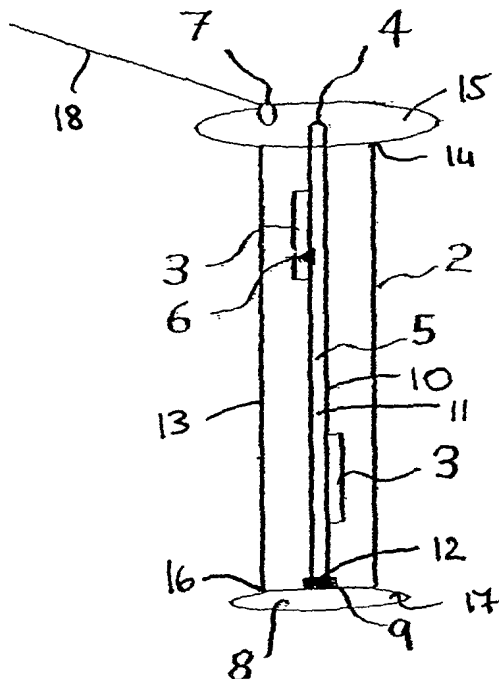
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: AN UNDERWATER LAMP



(57) Abstract: A lamp (1) for illuminating fish farms to promote plant and organism growth, having an elongate watertight housing (2) having first and second ends and a sidewall; a light source (3) within the housing arranged to emit light from the housing; a port (4) in the housing to allow ingress of water when the lamp is submerged in water; and a heat-dissipating element (5) having an elongate heat dissipating body extending into the housing to dissipate heat generated by the light source. The heat dissipating body (5) has an internally located conduit (11) which is in fluid communication with the port (4) in a watertight arrangement so that when the lamp (1) is submerged, water comes in through the port (4) flows internally into the heat dissipating body via the conduit (11) so that the heat dissipating element (5) is cooled by internally circulating water. Halogen bulbs (3) can be used.